

Amateur Radio Station



LOG

AMERICAN RADIO RELAY LEAGUE
NEWINGTON, CONNECTICUT, U.S.A.

CALLSIGN

VP5KC
VP5KC

Book No. ONE

From 2/15/82 -

To

Price \$1.75 in U.S.A.

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT—FILL THIS OUT

CALLSIGN VP5KC

Unless otherwise noted in the "COMMENTS" column, the following pertains to all entries made in this log:

Station Location GRACE BAY
(Street Address)

PROVIDENCIALES
(City/Town)

TURKS & CAICOS ISLANDS BW
(State/Province) (Country)

Time entries are in (check one): ☒ Coordinated Universal Time (UTC)

☐ _____ Time

Operator's Signature Kevin Paul Cooper

KEVIN PAUL COOPER

EMISSION TYPES

- | | |
|--|--|
| A0 Steady, unmodulated, pure carrier. | F1 Frequency-shift keying (fsk). |
| A1 Telegraphy on pure continuous wave. | F2 Audio-frequency-shift keying (afsk). |
| A2 Amplitude tone-modulated telegraphy. | F3 Frequency or phase-modulated telephony. |
| A3 Amplitude-modulated telephony. A3 includes single and double sideband with full, reduced or suppressed carrier. | F4 Facsimile (frequency-modulated). |
| A4 Facsimile (amplitude-modulated). | F5 Television (frequency-modulated). |
| A5 Television (amplitude-modulated). | P Pulse. |

ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Besides maintaining the minimum requirements, most radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TVI/RFI complaints, and detection of unauthorized use of your call sign. Keeping a neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation, DXing, contests, ragchews, casual. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ., MODE, and POWER. Consult the inside cover for mode designation unless you prefer to enter CW, SSB, FM, etc. The power should be indicated in watts input.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), call sign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests for which separate log sheets are not used. This column is located adjacent to the REPORT RECEIVED to facilitate this use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL information, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL sent and received.

Be sure to fill out the required information on the inside cover.

LOG REQUIREMENTS

Although logging requirements have been relaxed in recent years, every Amateur Station in the U.S. must have a log with the following items as a **minimum** requirement:

- 1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.
- 2) The locations and dates upon which fixed operation of the station was initiated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.

3) The date and time periods the duty control operator for the station was other than the station licensee, and the signature and primary station call sign of that duty control operator.

4) A notation of third-party traffic sent or received, including names of all third parties, and a brief description of the traffic content. This entry may be in a form other than written, but one which can be readily transcribed by the licensee into written form.

5) Additional information as directed by the FCC.

6) Additional technical and other information when a station is remotely controlled, when a station has one or more associated stations, or when a station is operated in repeater operations. (See §97.103 of the Amateur Rules.)

RETENTION OF LOGS

The station log must be kept for a period of at least one year from the date of the last entry and be made available to the FCC for inspection if required.

PORTABLE AND MOBILE OPERATIONS

Amateurs do not need to notify the FCC of mobile or portable operations. However, as seen in number 2 (above), the licensee must make a notation in the station log setting forth the locations and dates upon which fixed operation of the station is initiated and terminated. In addition, the licensee must make a notation for each time **portable** operation is initiated and terminated.

FCC defines portable operation as radiocommunications conducted from a specific geographical location other than that shown on the station license. Mobile operation is radiocommunication conducted while in motion or during halts at unspecified locations.

AVAILABILITY OF LICENSE

You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location you may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.

See inside front cover.

Input in Watts.

UTC recommended.

RST. See back inside cover.

This column may also be used for contest exchange info. received.

FIXED				VARIABLE									
DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
28 JUL	146.52	FM	10	0430	WA1CCR					Wallingford	Eric	NEW CONVERTER WORKS!	
3 OCT	7.0	A1	150	2319	WAGVEF	001	322	CALIFORNIA COS		CALIFORNIA QSO PARTY			
				22	NG0J	002	157	SONO					
				24	K6NA	003	331	SD					
				31	NG0P/M	004	117	CALAV					
9 OCT	28.6	A3	1kW	0301	JA10CA	59	57		Tokyo	Isao	Buro	✓	
	21	A1		1545	EA9GD	559	579		Melilla	Jose	Box 348	✓	✓
				56	60ØDX	599	599		SOMALIA		I2YAE	✓	
5 NOV	3.8	A3	150	0030	W9NA	59+	59+	0117	Wausau, WI	Rena			
9 Nov	21	A1	10	1642	G4BUE	339	44+	1657		1 watt!			

STATION NOTES:

W S R R R
Rosa
Net

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
4/6/62	21.306	SSB	100	0045	N5FID	59				Kearns, TX -			
	14.228			0145	W6PLK	59				Bill - Fullerton -			✓
				0151	K6CEV	59				KPM -			
				0152	W574H	59	58			Larry -			✓
				0204	KC7GO	59				John - Sierra Vista, AZ.			
				2110	KA6ERR					DON NB.			
				2117	W6HFL					DON Gil.			
				2120	W9LSF	59	57			PAUL Wisc.			
				2123	N9DLO	59	59			ENID - FL.			
				2126	C12BT	59	57			Pablo - (Unguax) CTOR			
				2128	W6QPH	59	59			KEN Night			
				2130	W49MFP	59	59			BUB IL			
				2132	K9JSR	54	54			PAUL IN			
				2134	W6RPA	58	58			WAGS			
				2135	W7KXH	59	59			Jim - AZ			
				2139	W2MX	59	59			Pepe MX			
				2142	W8LXW	59	59			LLOYD - ok			
				2145	W4BPR	59	59			MASSY - Wisc.			
				2250	K48LEX/KH6					BILL			
	20.527			2310	K9DDB	59	59			PEARL HARBOR			
				2325	K0GBV	54	59			DON ILLINOIS			
				0100	W4AST	55	54			BILL MICHIGAN			
				1015	W80MK	59	59			DICK TEXAS			
408	21326			1015	Los Sens to W3Hmk	5704/83							
59	14,300			1015	W80MK	59	59						

3852150404

TPRESS 18 1/2 TON
5K PD -
36' 5in / 57in
deposited 57'

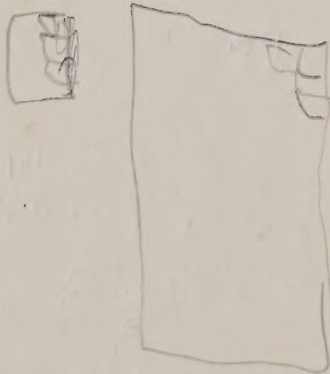
C Bunt

S "

1C "

2 - 16' Lashes

WB273C



[illegible]



ARRL DXCC LIST

These rules are effective for 6 different types of DXCC Awards as outlined in Rule 1 below. Changes are announced under DXCC Notes in QST.

1) The DX Century Club Award, with certificate and DXCC lapel pin, is available to ARRL members in Canada, the U.S. and possessions, and Puerto Rico, and all amateurs in the rest of the world. There are 6 separate DXCC awards available:

(a) **Mixed** (general-type): contacts may be made using any mode since November 15, 1945. This DXCC is endorsable; see Rule 5.

(b) **Phone**: contacts must be made using radiotelephone since November 15, 1945. This DXCC is endorsable; see Rule 5.

(c) **CW**: contacts must be made using CW since January 1, 1975. This DXCC is endorsable; see Rule 5.

(d) **RTTY**: contacts must be made using radioteletype since November 15, 1945. This DXCC is *not* endorsable.

(e) **160-Meter**: contacts must be made on 160-meters since November 15, 1945. This DXCC is *not* endorsable.

(f) **Satellite**: contacts made using the satellite since March 1, 1965. This DXCC is only available for contacts made through polar-sun synchronous satellites of altitudes less than 1,500 miles. This DXCC is *not* endorsable.

2) Confirmations must be submitted direct to ARRL Headquarters for all countries claimed. Claims for a total of 100 or more countries must be included with first application.

3) The ARRL Countries List criteria will be used in determining what constitutes a "country".

4) Confirmations must be accompanied by a list of claimed countries and stations to aid in checking and for future reference.

5) With the exception of the 160-Meter, RTTY and Satellite DXCCs, confirmations from additional countries may be submitted for further credits as follows: for accredited totals between 100 and 250, in increments of 25 that will, at least, bring the new total up to the next endorsement sticker level; for accredited totals between 250 and 300, in increments of 10 that will, at least, bring the new total up to the next endorsement sticker level; for total accredited countries over 300, in increments of 5 that will, at least, bring the new total up to the next endorsement sticker level. Endorsement stickers for affixing to certificates will be awarded as additional credits are granted. These stickers will be in exact multiples of 25, i.e. 125, 150, 175, between the 100 and 250 levels and in multiples of 10 between 250 and 300 and in multiples of 5 above the 300 levels.

Exception. Once per year, any DXCC participant having an accredited DXCC total of 250, or more, may make a submission without regard to the number of cards submitted.

6) All contacts must be made with amateur stations working in the authorized amateur bands or with other stations licensed to work amateurs.

7) In cases of countries where amateurs are licensed in the normal manner, credit may be claimed only for stations using regular government-assigned call letters. No credit may be claimed for contacts with stations in any countries in which amateurs have been temporarily closed down by special government edict where amateur licenses were formerly issued in the normal manner.

8) All stations contacted must be "land stations". Contacts with ships, anchored or otherwise, and aircraft, cannot be counted.

9) All stations must be contacted from the same DXCC "country".

10) Contacts may be made over any period of years since November 15, 1945, for the Mixed, Phone, 160-Meter and RTTY DXCCs, January 1, 1975, for the CW DXCC, and from March 1, 1965, for the Satellite DXCC, provided only that all contacts be made under the provisions of Rule 9, and by the same station licensee; contacts may have been under different call letters in the same area (or country), if the licensee for all was the same.

(You may feed one DXCC from several calls held simultaneously.)

11) Any altered or forged confirmations submitted for CC credit may result in disqualification of the applicant. The eligibility of any DXCC applicant who was ever barred from DXCC to reapply, and the conditions for such application, shall be determined by the Awards Committee. Any holder of the Century Club Award submitting forged or altered confirmations must forfeit his right to continued DXCC participation.

12) Operating Ethics:

(a) Fair play and good sportsmanship in operating are required of all DX Century Club members. In the event of specific objections relative to continued poor operating ethics, an individual may be disqualified from the DXCC by action of the ARRL Awards Committee.

(b) Credit for contacts with individuals who have displayed continued poor operating ethics may be disallowed by action of the ARRL Awards Committee.

(c) For (a) and (b) above "operating" includes confirmation procedures.

13) **ARRL MEMBERSHIP IS REQUIRED** of all DXCC applicants in Canada, the U.S. and possessions, and Puerto Rico. All new DXCC applications must contain sufficient funds for safe return postage in the form of U.S. currency, check or money order. For DXCC endorsements and completions of new applications, sufficient funds for safe return postage are also required. A chart showing suggested sums for return postage is available on request from ARRL Headquarters.

14) **ARRL MEMBERSHIP IS NOT REQUIRED** of foreign applicants. Each new DXCC application *must* contain sufficient funds for safe return postage. For DXCC endorsements and completions of new applications, sufficient funds for safe return postage are also required. A chart showing suggested sums for return postage is available on request from ARRL Headquarters.

15) Decisions of the ARRL Awards Committee regarding interpretation of the rules here printed or later amended shall be final.

16) Address all applications to ARRL, DXCC, 225 Main Street, Newington, CT, U.S.A. 06111.

Countries List Criteria

The ARRL Countries List is the result of some 38 years of progressive changes in DXing. The full list will not necessarily conform completely with these criteria since some of listings were set up and recognized from pre-WWII. While the general policy has remained the same, specific mileages and additional points have, over the past 13 years, been added to the criteria. The specific mileages in Point 2(a) and Point 3, mentioned in the following, have been used in considerations made in April 1960, and after. The specific mileage in Point 2(b) has been used in considerations made in April, 1963, and after.

Any land area in the world, with the exception of such land that would come under Point 4 and 5, can be placed in one or more of the following categories. Where the area in question meets at least one of the points in the criteria it may be considered eligible as a separate entity, i.e. a country, for our Countries List.

1) **Government:** An area by reason of Government constitutes a separate entity.

2) **Separation by water:** An island or a group of islands, not having its own government is considered as a separate entity under the following conditions:

(a) Islands situated off shore from their governing area must be geographically separated by a minimum of 225 miles of open water. This point is concerned with islands off shore from the mainland *only*. This point is *not* concerned with islands which are part of an island group or are geographically located adjacent to an island group.

(b) Islands forming part of an island group or which are geographically located adjacent to an island, or island group, which have a common government, will be considered as separate entities provided there is at least 500 miles of open water separation between the two areas in question.

3) **Separation by foreign land:** In the case of a country, such as that covered by Point 1, which has a common government but which is geographically separated by land which is foreign to that country, if there is a complete separation of the country in question by a minimum of 75 miles of foreign land, the country is considered as two separate entities. This 75 miles of land is a requirement which is applicable to land areas *only*. In cases of areas made up of a chain of islands, there is no minimum requirements concerned with the separation by foreign land.

4) **Unadministered area:** Any area which is unadministered will not be eligible for consideration as a separate entity.

5) (a) Any area which is classified as a Demilitarized Zone, Neutral Zone or Buffer Zone will not be eligible for consideration as a separate entity.

(b) Embassies, consulates and extra-territorial monuments will not be eligible for consideration as a separate entity from the host country.



Current Countries Total: 318

A2 Botswana
A3 Rep. of Tonga
A4X Oman
A5 Bhutan
A6X United Arab Emirates
A7X Qatar
A9X Bahrain
AA (See K)
AP Pakistan
BV Taiwan
BY China
C2 Rep. of Nauru
C3 Andorra
C5 The Gambia
C6 Bahamas
C9 Mozambique
CE Chile
CE9,FB8Y,KC4,LA,LU-Z,OR4,UA1,UK1,
VK0,VP8,ZL5,ZS1,3Y,4K,8J
..... Antarctica
CE9 (See VP8)
CE0A Easter Is.
CE0X San Felix
CE0Z Juan Fernandez
CM,CO Cuba
CN Morocco
CP Bolivia
CR9 Macao
CT Portugal
CT2 Azores
CT3 Madeira Is.
CX Uruguay
D2,3 Angola
D4 Rep. of Cape Verde
D6²⁶ Comoros
DA,DF,DJ,DK,DL²
..... Fed. Rep. of Germany
DM,DT,Y2-9³
..... German Democratic Rep.
DU Rep. of Philippines
EA Spain
EA6 Balearic Is.
EA8 Canary Is.
EA9 Ceuta and Melilla
EI Rep. of Ireland
EL Liberia
EP Iran
ET Ethiopia
F France
FB8W Crozet
FB8X Kerguelen Is.
FB8Y (See CE9)
FB8Z Amsterdam & St. Paul Is.
FC¹ Corsica
FG Guadeloupe
FG,FS¹ Saint Martin
FH²⁶ Mayotte
FK New Caledonia
FM Martinique
FO Clipperton I.
FO Fr. Polynesia
FP St. Pierre & Miquelon
FR⁴ Glorioso Is.
FR⁴ Juan de Nova, Europa
FR Reunion
FR Tromelin

FW Wallis & Futuna Is.
FY Fr. Guiana
G England
GD Isle of Man
GI Northern Ireland
GJ,GC Jersey
GM Scotland
GU,GC Guernsey & Dependencies
GW Wales
H4,VR4 Solomon Is.
HA Hungary
HB Switzerland
HB0 Liechtenstein
HC Ecuador
HC8 Galapagos Isls.
HH Haiti
HI Dominican Rep.
HK Colombia
HK0 Bajo Nuevo
HK0 Malpelo I.
HK0 San Andres & Providencia
HK0 (See KS4)
HL,HM Korea
HP Panama
HR Honduras
HS Thailand
HV Vatican
HZ,7Z Saudi Arabia
I,IT Italy
IS Sardinia
J2,FL8 Djibouti
J3,VP2G Grenada & Dependencies
J5,CR3 Guinea-Bissau
J6,VP2L St. Lucia
J7,VP2D Dominica
JA-JN,KA Japan
JD,KA1⁶ Minami Torishima
JD,KA1⁵ Ogasawara
JT Mongolia
JW Svalbard
JX Jan Mayen
JY Jordan
K, W, N, A
..... United States of America
KB,KH1 Baker, Howland &
American Phoenix Is.
KC4 (See CE9)
KC4, KP1 Navassa I.
KC6 Eastern Caroline Is.
KC6 Western Caroline Is.
KG4 Guantanamo Bay
KG6,KH2 Guam
KG6R,S,T,KH0 Mariana Is.
KH6 Hawaiian Is.
KH7 Kure I.
KJ, KH3 Johnston I.
KL7 Alaska
KM,KH4 Midway Is.
KP4 Puerto Rico
KP4²⁷ Desecheo Is.
KP6,KH5K Kingman Reef
KP6,KH5 Palmyra, Jarvis Is.
KS4,KP3,HK0
..... Serrana Bank & Roncador Cay
KS6,KH8 American Samoa

KV,KP2 Virgin Is.
KW,KH9 Wake I.
KX Marshall Is.
LA,LB,LF,LG,LJ Norway
LA (See CE9)
LU Argentina
LU-Z (See CE9, VP8)
LX Luxembourg
LZ Bulgaria
M1¹ (See 9A)
N (See K)
OA Peru
OD Lebanon
OE Austria
OH Finland
OH0 Aland Is.
OJ0 Market
OK Czechoslovakia
ON Belgium
OR4 (See CE9)
OX,XP Greenland
OY Faroe Is.
OZ Denmark
P2⁷ Papua New Guinea
PA,PD,PE,PI Netherlands
PJ Neth. Antilles
PJ St. Maarten, Saba, St. Eustatius
PY Brazil
PY0 Fernando de Noronha
PY0 St. Peter & St. Paul's Rocks
PY0 Trindade & Martin Vaz Is.
PZ Surinam
S2 Bangladesh
S7 Seychelles
S9,CR5 Sao Tome & Principe
SK,SL,SM Sweden
SP Poland
ST Sudan
ST0 Southern Sudan
SU Egypt
SV Greece
SV Crete
SV Dodecanese
SV Mount Athos
T2,VR8¹⁶ Tuvalu
T3,VR1 Cent. Kiribati
(Brit. Phoenix Is.)
T3,VR1 West Kiribati
(Gilbert & Ocean Is.)
T3,VR3 East Kiribati
(Line Is.)
TA Turkey
TF Iceland
TG Guatemala
TI Costa Rica
TI9 Cocos I.
TJ Cameroon
TL⁸ Central African Rep.
TN⁹ Congo
TR¹⁰ Gabon
TT¹¹ Chad
TU¹² Ivory Coast
TY¹³ Benin
TZ¹⁴ Mali

1. Unofficial prefix.

2. (DA, DJ, DK, DL) Only contacts made September 17, 1973, and after, will count for this country.

3. (DM, DT, Y2-9) Only contacts made September 17, 1973, and after, will count for this country.

4. (FR7) Only contacts made June 25, 1960, and after, will count for this country.

5. (JD, KA1) Formerly Bonin and Volcano Islands.

6. (JD, KA1) Formerly Marcus Island.

7. (P2) Only contacts made September 16, 1975, and after, will count for this country.

8. (TL) Only contacts made August 13, 1960, and after, will count for this country.

DELETED COUNTRIES

Credit for any of these countries can be given if the date of contact with the country in question agrees with the date(s) shown in the corresponding footnote.

(AC3)¹² Sikkim
 (AC4)¹³ Tibet
 C9⁴ Manchuria
 CN2⁵ Tangier
 CR8⁶ Damao, Diu
 CR8⁶ Goa
 CR8³⁴ Port. Timor
 DA,DJ,DK,DL,DM⁷ Germany
 EA9⁸ Ifni
 EA9³⁸ Rio de Oro
 ET2⁹ Eritrea
 FF8¹⁰ Fr. West Africa
 FH³⁵ Comoros
 F8¹¹ Fr. Indo-China
 FN¹² French India
 FQ8¹³ Fr. Equatorial Africa

II¹⁴ Trieste
 IS¹⁵ Italian Somaliland
 JD/7J⁴⁰ Okino Tori-shima
 JZ0¹⁶ Netherlands New Guinea
 KR6,8,JR6,KA6,¹⁷ Ryukyu Islands
 KS4¹⁸ Swan Islands
 KZ³⁹ Canal Zone
 P2,VK9¹⁹ Papua Territory
 P2,VK9¹⁹ Terr. New Guinea
 PK1,2,3²⁰ Java
 PK4²⁰ Sumatra
 PK5²⁰ Netherlands Borneo
 PK6²⁰ Celebe & Molucca Isls.
 UN1²¹ Karelo-Finnish Rep.
 VO²² Newfoundland, Labrador
 VQ1,5H1²³ Zanzibar
 VQ6²⁴ British Somaliland

VQ9³⁶ Aldabra
 VQ9³⁶ Desroches
 VQ9³⁶ Farquhar
 VS4²⁵ Sarawak
 VS9H²⁶ Kuria Muria Isls.
 ZC5²⁵ British North Borneo
 ZC6²⁷ Palestine
 ZD4²⁸ Gold Coast, Togoland
 (1M)¹²⁹ Minerva Reefs
 9K3,8Z5³⁰ Kuwait/Saudi Arabia Neutral Zone
 9M2²⁵ Malaya
 9S4³¹ Saar
 9U5³² Ruanda-Urundi
 33 Blenheim Reef
 37 Geyser Reef

1. Unofficial prefix.
2. (AC3) Only contacts made before May 1, 1975, will count for this country. Contacts made May 1, 1975, and after, count as India.
3. (AC4) Only contacts made before June 1, 1974, will count for this country.
4. (C9) Only contacts made before September 16, 1963, will count for this country.
5. (CN2) Only contacts made before July 1, 1960, will count for this country.
6. (CR8) Only contacts made before January 1, 1962, will count for this country.
7. (DA, DJ, DK, DL, DM) Only contacts made before September 17, 1973, will count for this country.
8. (EA9) Only contacts made May 13, 1969, and before, count for this country.
9. (ET2) Only contacts made November 14, 1962, and before, will count for this country.
10. (FF8) Only contacts made August 6, 1960, and before, will count for this country.
11. (F8) Only contacts made before December 21, 1950, will count for this country.
12. (FN) Only contacts made before November 1, 1954, will count for this country.
13. (FQ8) Only contacts made August 16, 1960, and before, will count for this country.
14. (II) Only contacts made before April 1, 1957, will count for this country. Contacts made April 1, 1957, and after, count as Italy.

15. (IS) Only contacts made June 30, 1960, and before, will count for this country.

16. (JZ0) Only contacts made before May 1, 1963, will count for this country.

17. (KR6, JR6, KA6) Only contacts made before May 15, 1972, will count for this country. Contacts made May 15, 1972, and after, count as Japan.

18. (KS4) Only contacts made before September 1, 1972, will count for this country. Contacts made September 1, 1972, and after, count as Honduras.

19. (P2, VK9) Only contacts made before September 16, 1975, will count for this country.

20. (PK1, 2, 3, 4, 5, 6) Only contacts made before May 1, 1963, will count for this country.

21. (UN1) Only contacts made June 30, 1960, and before, will count for this country. Contacts made July 1, 1960, and after, count as European Russian S.F.S.R.

22. (VO) Only contacts made before April 1, 1949, will count for this country.

23. (VQ1, 5H1) Only contacts made before June 1, 1974, will count for this country.

24. (VQ6) Only contacts made June 30, 1960, and before, will count for this country.

25. (VS4, ZC5, 9M2) Only contacts made September 15, 1963, and before, will count for this country.

26. (VS9H) Only contacts made before November 30, 1967, will count for this country. Contacts made December 1, 1967, and after, count as Oman.

27. (ZC6) Only contacts made July 1, 1968, and before, will count for this country.

28. (ZD4) Only contacts made March 5, 1957, and before, will count for this country.

29. (1M) Only contacts made July 15, 1972, and before, will count for this country. Contacts made July 16, 1972, and after, count as Tonga.

30. (9K3, 8Z5) Only contacts made before December 15, 1969, will count for this country.

31. (9S4) Only contacts made before April 1, 1957, and after, count as Germany.

32. (9U5) Only contacts made between July 1, 1960, and July 1, 1962, will count for this country.

33. (Blenheim Reef) Only contacts made between May 4, 1967, and July 1, 1975, will count for this country. Contacts made July 1, 1975, and after, count as Chagos.

34. (CR8) Only contacts made before September 15, 1976, will count for this country.

35. (FH) Only contacts made before July 6, 1975, count toward this country.

36. (VQ9) Only contacts made before June 29, 1976, count for these countries.

37. (Geyser Reef) Only contacts made between May 4, 1967 and March 1, 1978, will count for this country.

38. (EA9) Only contacts made before January 8, 1976 will count for this country.

39. (KZ) Only contacts made before October 1, 1979 will count for this country.

40. (JD/7J) Only contacts made between May 30, 1976 and November 30, 1980, will count for this country. Contacts made December 1, 1980, and after, count as Ogasawara.

PREFIX CROSS REFERENCES

AC¹ (See A5)
 AP (See S2-3)
 AX (See VK)
 CN9 (See CN2, 8)
 CR4 (See D4)
 CR5 (See S9)
 CR5 (See CR3)
 CR6 (See D2, 3)
 CR7 (See C9)
 CR10 (See CR8)
 DX (See DU)
 EA0 (See 3C)
 FA (See 7X)
 FB8 (See FH8)
 FB8 (See FR7)
 FB8 (See 5R8)
 FD (See 5V)
 FE8 (TI)

FF4 (See TU)
 FF7 (See 5T)
 FF8 (See TY)
 FF8 (See TZ)
 FF8 (See XT)
 FF8 (See 5U7)
 FF8 (See 6W8)
 FL8 (See TL)
 FQ8 (See TN)
 FQ8 (See TR)
 FQ8 (See TT)
 FQ8 (See TT)
 FU8 (See YJ)
 HE (See HB0)
 HG (See HA)
 HT (See YN)
 IM (See IS)

JR6 (See KR6, 8)
 KA6 (See KR6, 8)
 KG6I (See JD, KA1)
 LA/G (See CE9,3Y)
 LA/P (See JX, JW)
 MP4B (See A9)
 MP4D (See A6)
 MP4M (See A4)
 MP4Q (See A7)
 MP4T (See A6)
 OF (See OH)
 OQ5,0 (See 9Q5)
 PK (See YB)
 PX¹ (See C3)
 VK9 (See C2)
 VK9AA-MZ (See P2)

VP2G (See J3)
 VP2K (See VP2E)
 VP3 (See 8R)
 VP4 (See 9Y4)
 VP5 (See ZF1)
 VP5 (See 6Y5)
 VP6 (See 8P)
 VP7 (See C6)
 VQ1 (See 5H1)
 VQ2 (See 9J2)
 VQ3 (See 5H3)
 VQ4 (See 5Z4)
 VQ5 (See 5X5)
 VQ8 (See 3B6,7,8,9)
 VQ9 (See S7)
 VR2 (See 3D2)
 VR4 (See H4)
 VR5 (See A3)

VS1 (See 9M2)
 VS1 (See 9V1)
 VS2 (See 9M2)
 VS9 (See 7O)
 VS9O (See A4)
 VX9 (See VE1)
 VY0 (See VE1)
 XF (See XE)
 YN0 (See YN)
 YT (See YU)
 YZ (See YU)
 ZB1 (See 9H1)
 ZD1 (See 9L1)
 ZD2 (See 5N2)
 ZD3 (See C5)
 ZD4 (See 9G1)
 ZD5 (See 3D6)

ZD6 (See 7Q7)
 ZM6 (See 5W1)
 ZS7 (See 3D6)
 ZS8 (See 7P8)
 ZS9 (See A2)
 3W8 (See XV5)
 3Z (See SP)
 4A (See XE)
 4M (See YV)
 6D (See XE)
 6D4 (See XF4)
 7G (See 3X)
 7J (See JD1)
 8F (See YB)
 8Z5 (See 9K3)
 9E, 9F (See ET3)
 9M4 (See 9V1)

Table of Allocation of International Call Signs¹

Call Sign Series	Allocated to		
AAA-ALZ	United States of America	J4A-J4Z	Greece
AMA-AOZ	Spain	J5A-J5Z	Guinea-Bissau (Republic of)
APA-ASZ	Pakistan (Islamic Republic of)	J6A-J6Z	Saint Lucia
ATA-AWZ	India (Republic of)	J7A-J7Z	Dominica
AXA-AXZ	Australia	KAA-KZZ	United States of America
AYA-AZZ	Argentine Republic	LAA-LNZ	Norway
A22AAA-	Botswana (Republic of)	LOA-LWZ	Argentine Republic
A22ZZZ		LXA-LXZ	Luxembourg
A3A-A3Z	Tonga (Kingdom of)	LYA-LYZ	Union of Soviet Socialist Republics
A4A-A4Z	Oman (Sultanate of)	LZA-LZZ	Bulgaria (People's Republic of)
A5A-A5Z	Bhutan (Kingdom of)	L2A-L9Z	Argentina (Republic of)
A6A-A6Z	United Arab Emirates	MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
A7A-A7Z	Qatar (State of)	NAA-NZZ	United States of America
A8A-A8Z	Liberia (Republic of)	OAA-OCZ	Peru
A9A-A9Z	Bahrain (State of)	ODA-ODZ	Lebanon
BAA-BZZ	China (People's Republic of)	OEA-OEZ	Austria
CAA-CEZ	Chile	OFA-OJZ	Finland
CFA-CKZ	Canada	OKA-OMZ	Czechoslovak Socialist Republic
CLA-CMZ	Cuba	ONA-OTZ	Belgium
CNA-CNZ	Morocco (Kingdom of)	OUA-OZZ	Denmark
COA-COZ	Cuba	PAA-PIZ	Netherlands (Kingdom of the)
CPA-CPZ	Bolivia (Republic of)	PJA-PJZ	Netherlands Antilles
CQA-CUZ	Portugal	PKA-POZ	Indonesia (Republic of)
CVA-CXZ	Uruguay (Oriental Republic of)	PPA-PYZ	Brazil (Federative Republic of)
CYA-CZZ	Canada	PZA-PZZ	Suriname (Republic of)
C2A-C2Z	Nauru (Republic of)	P2A-P2Z	Papua New Guinea
C3A-C3Z	Andorra (Principality of)	P3A-P3Z	Cyprus (Republic of)
C4A-C4Z	Cyprus (Republic of)	P4A-P4Z	Netherlands Antilles
C5A-C5Z	Gambia (Republic of the)	P5A-P9Z	Democratic People's Republic of Korea
C62AA-	Bahamas (Commonwealth of the)	QAA-QZZ	(Service abbreviations)
C69ZZ		RAA-RZZ	Union of Soviet Socialist Republics
C7A-C7Z*	World Meteorological Organization	SAA-SMZ	Sweden
C8A-C9Z	Mozambique (People's Republic of)	SNA-SRZ	Poland (People's Republic of)
DAA-DRZ	Germany (Federal Republic of)	SSA-SSM	Egypt (Arab Republic of)
DSA-DTZ	Republic of Korea	SSN-STZ	Sudan (Democratic Republic of the)
DUA-DZZ	Philippines (Republic of the)	SUA-SUZ	Egypt (Arab Republic of)
D2A-D3Z	Angola (People's Republic of)	SVA-SZZ	Greece
D4A-D4Z	Cape Verde (Republic of)	S2A-S3Z	Bangladesh (People's Republic of)
D5A-D5Z	Liberia (Republic of)	S6A-S6Z	Singapore (Republic of)
D6A-D6Z	Comoros (Federal and Islamic Republic of the)	S7A-S7Z	Seychelles (Republic of)
D7A-D9Z	Republic of Korea	S92AA-	Sao Tome and Principe (Democratic Republic of)
EAA-EHZ	Spain	S92ZZ	
EIA-EJZ	Ireland	TAA-TCZ	Turkey
EKA-EKZ	Union of Soviet Socialist Republics	TDA-TDZ	Guatemala (Republic of)
ELA-ELZ	Liberia (Republic of)	TEA-TEZ	Costa Rica
EMA-EOZ	Union of Soviet Socialist Republics	TFA-TFZ	Iceland
EPA-EQZ	Iran (Islamic Republic of)	TGA-TGZ	Guatemala (Republic of)
ERA-ESZ	Union of Soviet Socialist Republics	THA-THZ	France
ETA-ETZ	Ethiopia	TIA-TIZ	Costa Rica
EUA-EWZ	Byelorussian Soviet Socialist Republic	TJA-TJZ	Cameroon (United Republic of)
EXA-EZZ	Union of Soviet Socialist Republics	TKA-TKZ	France
FAA-FZZ	France	TLA-TLZ	Central African Republic
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland	TMA-TMZ	France
HAA-HAZ	Hungarian People's Republic	TNA-TNZ	Congo (People's Republic of the)
HBA-HBZ	Switzerland (Confederation of)	TOA-TQZ	France
HCA-HDZ	Ecuador	TRA-TRZ	Gabon Republic
HEA-HEZ	Switzerland (Confederation of)	TSA-TSZ	Tunisia
HFA-HFZ	Poland (People's Republic of)	TTA-TTZ	Chad (Republic of the)
HGA-HGZ	Hungarian People's Republic	TUA-TUZ	Ivory Coast (Republic of the)
HHA-HHZ	Haiti (Republic of)	TVA-TXZ	France
HIA-HIZ	Dominican Republic	TYA-TYZ	Benin (People's Republic of)
HJA-HKZ	Colombia (Republic of)	TZA-TZZ	Mali (Republic of)
HLA-HLZ	Republic of Korea ²	T2A-T2Z	Tuvalu
HMA-HMZ	Democratic People's Republic of Korea ²	T3A-T3Z	Kiribati Republic
HNA-HNZ	Iraq (Republic of)	T4A-T4Z	Cuba
HOA-HPZ	Panama (Republic of)	T5A-T5Z	Somali Democratic Republic
HQA-HRZ	Honduras (Republic of)	T6A-T6Z	Afghanistan (Democratic Republic of)
HSA-HSZ	Thailand	UAA-UQZ	Union of Soviet Socialist Republics
HTA-HTZ	Nicaragua	URA-UTZ	Ukrainian Soviet Socialist Republic
HUA-HUZ	El Salvador (Republic of)	UUA-UZZ	Union of Soviet Socialist Republics
HVA-HVZ	Vatican City State	VAA-VGZ	Canada
HWA-HYZ	France	VHA-VNZ	Australia
HZA-HZZ	Saudi Arabia (Kingdom of)	VOA-VOZ	Canada
H2A-H2Z	Cyprus (Republic of)	VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
H3A-H3Z	Panama (Republic of)	VTa-VWZ	India (Republic of)
H4A-H4Z	Solomon Islands	VXA-VYZ	Canada
H6A-H7Z	Nicaragua	VZA-VZZ	Australia
H8A-H9Z	Panama (Republic of)	WAA-WZZ	United States of America
IAA-IZZ	Italy	XAA-XIZ	Mexico
JAA-JSZ	Japan	XJA-XOZ	Canada
JTA-JVZ	Mongolian People's Republic	XPA-XPZ	Denmark
JWA-JXZ	Norway	XQA-XRZ	Chile
JYA-JYZ	Jordan (Hashemite Kingdom of)	XSA-XSZ	China (People's Republic of)
JZA-JZZ	Indonesia (Republic of)	XTA-XTZ	Upper Volta (Republic of)
J2A-J2Z	Djibouti (Republic of)	XUA-XUZ	Democratic Kampuchea
J3A-J3Z	Grenada	XVA-XVZ	Viet Nam (Socialist Republic of)

(Continued)

XWA-XWZ	Lao People's Democratic Republic	5JA-5KZ	Colombia (Republic of)
XXA-XXZ	Portugal	5LA-5MZ	Liberia (Republic of)
XYA-XZZ	Burma (Socialist Republic of the Union of)	5NA-5OZ	Nigeria (Federal Republic of)
YAA-YAZ	Afghanistan (Democratic Republic of)	5PA-5QZ	Denmark
YBA-YHZ	Indonesia (Republic of)	5RA-5SZ	Madagascar (Democratic Republic of)
YIA-YIZ	Iraq (Republic of)	5TA-5TZ	Mauritania (Islamic Republic of)
YJA-YJZ	New Hebrides	5UA-5UZ	Niger (Republic of the)
YKA-YKZ	Syrian Arab Republic	5VA-5VZ	Togolese Republic
YLA-YLZ	Union of Soviet Socialist Republics	5WA-5WZ	Western Samoa
YMA-YMZ	Turkey	5XA-5XZ	Uganda (Republic of)
YNA-YNZ	Nicaragua	5YA-5ZZ	Kenya (Republic of)
YOA-YRZ	Romania (Socialist Republic of)	6AA-6BZ	Egypt (Arab Republic of)
YSA-YSZ	El Salvador (Republic of)	6CA-6CZ	Syrian Arab Republic
YTA-YUZ	Yugoslavia (Socialist Federal Republic of)	6DA-6JZ	Mexico
YVA-YYZ	Venezuela (Republic of)	6KA-6NZ	Republic of Korea
YZA-YZZ	Yugoslavia (Socialist Federal Republic of)	6OA-6OZ	Somali Democratic Republic
YZA-Y9Z	German Democratic Republic	6PA-6SZ	Pakistan (Islamic Republic of)
ZAA-ZAZ	Albania (Socialist People's Republic of)	6TA-6UZ	Sudan (Democratic Republic of the)
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland	6VA-6WZ	Senegal (Republic of the)
ZKA-ZMZ	New Zealand	6XA-6XZ	Madagascar (Democratic Republic of)
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland	6YA-6YZ	Jamaica
ZPA-ZPZ	Paraguay (Republic of)	6ZA-6ZZ	Liberia (Republic of)
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland	7AA-7IZ	Indonesia (Republic of)
ZRA-ZUZ	South Africa (Republic of)	7JA-JNZ	Japan
ZVA-ZZZ	Brazil (Federative Republic of)	7OA-7OZ	Yemen (People's Democratic Republic of)
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland	7PA-7PZ	Lesotho (Kingdom of)
3AA-3AZ	Monaco	7QA-7QZ	Malawi (Republic of)
3BA-3BZ	Mauritius	7RA-7RZ	Algeria (Algerian Democratic and Popular Republic)
3CA-3CZ	Equatorial Guinea (Republic of)	7SA-7SZ	Sweden
3DA-3DM	Swaziland (Kingdom of)	7TA-7YZ	Algeria (Algerian Democratic and Popular Republic)
3DN-3DZ	Fiji	7ZA-7ZZ	Saudi Arabia (Kingdom of)
3EA-3FZ	Panama (Republic of)	8AA-8IZ	Indonesia (Republic of)
3GA-3GZ	Chile	8JA-8NZ	Japan
3HA-3UZ	China (People's Republic of)	8OA-8OZ	Botswana (Republic of)
3VA-3VZ	Tunisia	8PA-8PZ	Barbados
3WA-3WZ	Viet Nam (Socialist Republic of)	8QA-8QZ	Maldives (Republic of)
3XA-3XZ	Guinea (People's Revolutionary Republic of)	8RA-8RZ	Guyana
3YA-3YZ	Norway	8SA-8SZ	Sweden
3ZA-3ZZ	Poland (People's Republic of)	8TA-8YZ	India (Republic of)
4AA-4CA	Mexico	8ZA-8ZZ	Saudi Arabia (Kingdom of)
4DA-4IZ	Philippines (Republic of the)	9AA-9AZ	San Marino (Republic of)
4JA-4LZ	Union of Soviet Socialist Republics	9BA-9DZ	Iran (Islamic Republic of)
4MA-4MZ	Venezuela (Republic of)	9EA-9FZ	Ethiopia
4NA-4OZ	Yugoslavia (Socialist Federal Republic of)	9GA-9GZ	Ghana
4PA-4SZ	Sri Lanka (Democratic Socialist Republic of)	9HA-9HZ	Malta (Republic of)
4TA-4TZ	Peru	9IA-9JZ	Zambia (Republic of)
4UA-4UZ*	United Nations Organization	9KA-9KZ	Kuwait (State of)
4VA-4VZ	Haiti (Republic of)	9LA-9LZ	Sierra Leone
4WA-4WZ	Yemen Arab Republic	9MA-9MZ	Malaysia
4XA-4XZ	Israel (State of)	9NA-9NZ	Nepal
4YA-4YZ*	International Civil Aviation Organization	9OA-9TZ	Zaire (Republic of)
4ZA-4ZZ	Israel (State of)	9UA-9UZ	Burundi (Republic of)
5AA-5AZ	Libya (Socialist People's Libyan Arab Jamahiriya)	9VA-9VZ	Singapore (Republic of)
5BA-5BZ	Cyprus (Republic of)	9WA-9WZ	Malaysia
5CA-5GZ	Morocco (Kingdom of)	9XA-9XZ	Rwanda (Republic of)
5HA-5IZ	Tanzania (United Republic of)	9YA-9ZZ	Trinidad and Tobago

- 1) The series of call signs with asterisk indicate the international organization to which they are allocated.
- 2) The two administrations concerned undertake to change their existing use of HLA-HLZ and HMA-HMZ Call Sign series to conform with the 1979 Table of Allocations as soon as practicable, in order to clarify their operational arrangements for other administrations. In this regard, the Administration of the Republic of Korea will take action to change the existing call signs registered with the ITU in the HMA-HMZ series as changes occur in the use of call signs in this series. The above-mentioned actions shall, in any case, be completed by 1 January 1984.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

PRECEDENCES

EMERGENCY

Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare**. On CW/RTTY, this designation will **always** be spelled out. When in doubt, do not use it.

PRIORITY

Use abbreviation *P* on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the **utmost** urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE

This classification, abbreviated as *W* on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE

Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (*R* on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preamble in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals. *Example:* NR 1 R WIAW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *Operating an Amateur Radio Station*, published by ARRL.

Group One -- For Possible "Relief Emergency" Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____. Advise to standby and provide further emergency information, instructions or assistance.
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your condition and what help is needed.
SIXTEEN	Property damage very severe in this area.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____.
EIGHTEEN	Please contact me as soon as possible at _____.
NINETEEN	Request health and welfare report on _____. (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____.
TWENTY ONE	Search and Rescue assistance is needed by local authorities here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions now existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.

TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.
TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two -- Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio.
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____. Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____. It's appreciated; many thanks.
FIFTY FOUR	Many thanks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____, a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____.
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____.
SIXTY FIVE	Arriving _____ on _____. Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____. Please advise.
SIXTY EIGHT	Sorry to hear you are ill. Best wishes for a speedy recovery.

*Can be used for all holidays.

ARRL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES.

License Renewal Information

1) Attach a photocopy, or the original, of your license to the FCC Form 610 (available from ARRL hq.; s.a.s.e. please).

2) Mail to FCC, Box 1020, Gettysburg, PA 17325.

3) Retain copies of everything, if possible, as proof of filing before expiration. If you file before the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. After expiration, there is a one-year grace period under which you may still renew and keep your call sign without retesting, but you must wait until the new license arrives to operate. There is also a five-year grace period under which you may still renew; however, after the initial one-year period, you will be issued a new license with a new call sign. After this five year grace period expires, you must be re-examined for a new license. Normally, application should be made approximately 90 days before expiration;

Table 1

The "Considerate Operator's Frequency Guide"

Some frequencies that are generally recognized for certain modes or certain activities:

1800-1810 kHz	cw, DX calling	21.09-21.10 MHz	RTTY
1825-1830 kHz	"DX window" (no WVEs)	21.34 MHz	SSTV
3610-3630 kHz	RTTY	28.09-28.10 MHz	RTTY
3845 kHz	SSTV	28.68 MHz	SSTV
7090-7100 kHz	RTTY	28.30-29.50 MHz	Satellite downlinks
7171 kHz	SSTV	29.52-29.58 MHz	Repeater inputs
14.08-14.10 MHz	RTTY	29.60 MHz	FM simplex
14.23 MHz	SSTV	29.62-29.68 MHz	Repeater outputs

(In addition, on 20 meters in particular, the low end of the U.S. phone segment is reserved for DX, the high end for traffic, and ragchewing in between. The dividing lines are not definite, however.) Radio Control R/C Channels: 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7 and 53.8 MHz.

however, renewal can be applied for at any time during the term of the license.

4) If you are simply modifying your license (change of address, for example), you must fill out the Form 610; a letter is no longer suffi-

cient. Incidentally, your license will also be automatically renewed at this time.

5) If you have any questions or problems, drop a note to the Membership Services Department, ARRL.

U.S. Amateur Frequency and Mode Allocations

Power Limits: All U.S. amateurs are limited to 250-watts dc input in the Novice segments. On all other segments, with certain exceptions in the 160-meter and 420-MHz bands, 1-kilowatt dc input is permitted. Also, there are erp limitations for stations in repeater operation. (See 97.67, FCC rules.) At all times the power level should be kept down to that necessary to maintain communications. (Revised as of December 6, 1980)

Bandwidth Limitations

FREQUENCY (OR PHASE) MODULATION: On frequencies below 29.0 MHz, the bandwidth of F3 emission shall not exceed that of an A3 emission having the same audio characteristics.

TELEVISION: On frequencies below 50 MHz, the bandwidth of A5 and F5 emissions shall not exceed that of an A3 single sideband emission. Between 50 and 225 MHz, single sideband or double sideband A5 may be used and the bandwidth shall not exceed that of an A3 single sideband or double sideband signal respectively. The bandwidth of F5 emission shall not exceed that of an A3 single sideband

emission. Below 225 MHz, A3 and A5 emissions may be used simultaneously on the same carrier frequency provided the total bandwidth does not exceed that of an A3 double sideband emission.

DIGITAL TRANSMISSION:

(a) *International Telegraphic Alphabet No. 2 (Baudot code)*. When using frequency-shift keying, the shift shall be less than 900 Hz. With audio frequency-shift keying, the highest fundamental modulating frequency shall not exceed 3000 Hz and the audio frequency shift shall be less than 900 Hz.

(b) *American Standard Code for Informa-*

tion Interchange (ASCII). F1 emission shall be utilized on those frequencies between 3.5 and 21.25 MHz where its use is permissible, and the sending speed shall not exceed 300 bauds. F1, F2 and A2 emissions may be utilized on those frequencies between 28 and 225 MHz where their use is permissible and the sending speed shall not exceed 1200 bauds. F1, F2 and A2 emissions may be utilized on those frequencies above 420 MHz where their use is permissible and the sending speed shall not exceed 19.6 kilobauds.

The code must conform to the American Standard Code for Information Interchange (ASCII) as defined in American National Standards Institute (ANSI) standard X3.4-1968. See §97.69 of the Amateur Rules.

ALL MODES: The carrier frequency plus modulating frequencies must be contained within amateur allocations and within appropriate subbands.

NOTE: Some amateur bands are shared with other services. Some geographical limitations exist for the 420-MHz band. For details, and for information on specialized modes, see *ARRL License Manual*. For information on repeaters, see the *License Manual* and *Repeater Directory*.

160 METERS: Extra, Advanced and General may use some segments at 1.8-2.0 MHz. Limitations are on a geographical basis; see *License Manual* or request form MS/G-7 from ARRL hq.

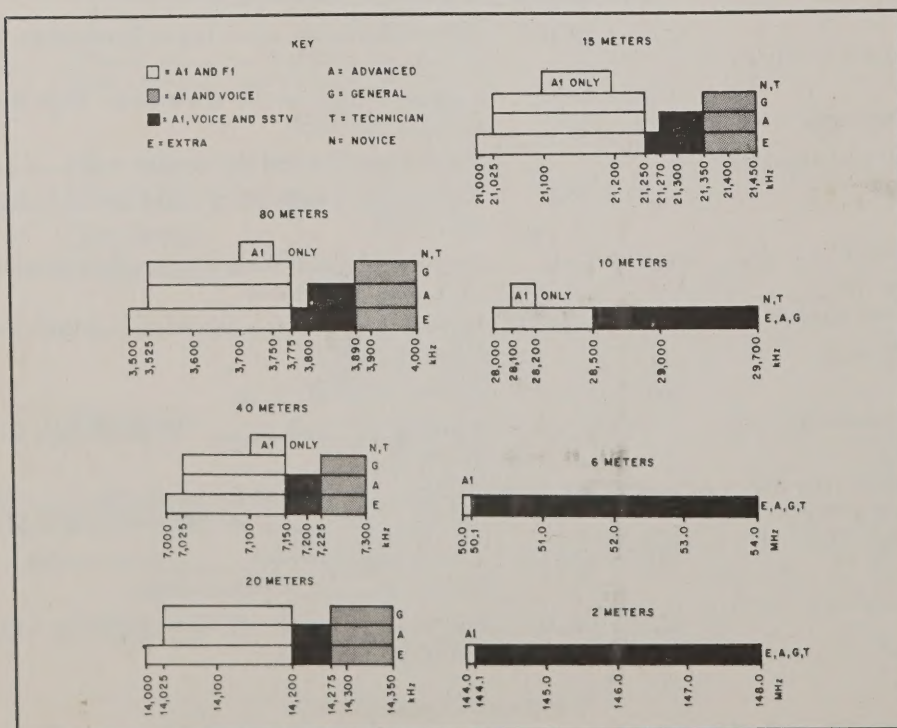
Other — All modes, except as noted.

Extra, Advanced, General, Technician

MHz	GHz**
220-225*	10.0-10.5*
420-450*	24.0-24.25
1215-1300*	48.0-50.0
2300-2450	71.0-76.0
3300-3500	165.0-170.0
5650-5925	240.0-250.0
	All above 300

*Pulse not permitted.

**1 GHz = 1000 MHz.



INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers the question affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	How is my tone? (1-3)
QRK	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Are my signals mutilated?
QSG	Shall I send messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with direct?
QSP	Will you relay to?
QSV	Shall I send a series of V's?
QSW	Will you transmit on?
QSX	Will you listen for on?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or)
QTA	Shall I cancel number?
QTB	Do you agree with my word count? (Answer negative).
QTC	How many messages have you to send?
QTH	What is your location?
QTR	What is your time?
QTV	Shall I stand guard for you?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of?

TIME CONVERSION CHART

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400*	2000	1900	1800	1700	1600

Universal Coordinated Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending, 0000 with the day just starting.

THE R-S-T SYSTEM

READABILITY

- 1 — Unreadable.
- 2 — Barely readable, occasional words distinguishable.
- 3 — Readable with considerable difficulty.
- 4 — Readable with practically no difficulty.
- 5 — Perfectly readable.

SIGNAL STRENGTH

- 1 — Faint signals, barely perceptible.
- 2 — Very weak signals.
- 3 — Weak signals.
- 4 — Fair signals.
- 5 — Fairly good signals.
- 6 — Good signals.
- 7 — Moderately strong signals.
- 8 — Strong signals.
- 9 — Extremely strong signals.

TONE

- 1 — Sixty cycle a.c. or less, very rough and broad.
- 2 — Very rough a.c. very harsh and broad.
- 3 — Rough a.c. tone, rectified but not filtered.
- 4 — Rough note, some trace of filtering.
- 5 — Filtered rectified a.c. but strongly ripple-modulated.
- 6 — Filtered tone, definite trace of ripple modulation.
- 7 — Near pure tone, trace of ripple modulation.
- 8 — Near perfect tone, slight trace of modulation.
- 9 — Perfect tone, no trace of ripple or "modulation of any kind."

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly a click, add K. The above reporting system is used on c.w. and voice, leaving out the "tone" report on voice.

ITU Phonetic Alphabet

Word list adopted by the
International Telecommunication Union

A	ALFA
B	BRAVO
C	CHARLIE
D	DELTA
E	ECHO
F	FOXTROT
G	GOLF
H	HOTEL
I	INDIA
J	JULIETT
K	KILO
L	LIMA
M	MIKE
N	NOVEMBER
O	OSCAR
P	PAPA
Q	QUEBEC
R	ROMEO
S	SIERRA
T	TANGO
U	UNIFORM
V	VICTOR
W	WHISKEY
X	X-RAY
Y	YANKEE
Z	ZULU

IN AN EMERGENCY

Monitor your local emergency net frequency.

Make contact with your local EC or RO.

Take immediate steps to follow any prearranged plans.

Stay off the air unless or until you are *sure* you can be of assistance.

In widespread emergencies, monitor WIAW for latest bulletins and news.

